

## **SECTION 09680 CARPET**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section Includes:
  - 1. Carpet.
  - 2. Accessories.
- B. Related Documents: The Contract Documents, as defined in Section 01110 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents.
- C. Related Sections:
  - 1. Section 01015 - Leeds Requirements & Leeds Matrix
  - 2. Section 09650 - Resilient Flooring: Tile and base.
  - 3. Section 14240 - Elevator: Elevator Cab floor finish.

#### **1.2 REFERENCES**

- A. American Society for Testing and Materials (ASTM):
  - 1. ASTM E 684 - Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- B. BOCA:
  - 1. FF-1-70.
- C. Carpet and Rug Institute (CRI):
  - 1. CRI 104 - Standard for Installation of Commercial Textile Floorcovering Materials.
  - 2. Green label certification.
- D. HUD:
  - 1. UM44d Standards.
- E. National Fire Protection Association (NFPA):
  - 1. NFPA 253 - Test for Critical Radiant Flux of Floor Covering Systems.
  - 2. NFPA 258 - Standard Research Test Method for Determining Smoke Generation of Solid Materials.

#### **1.3 SYSTEM DESCRIPTION**

- A. Recycled content: minimum 50% total recycled content, with not less than 10% post consumer recycled materials and the balance post-industrial recycled materials.
- B. Materials: all materials shall be high quality and of the type generally accepted for use in the industry. When used as intended, the materials shall be non-toxic, non-allergenic and free of similar health hazards. These materials include, but are not limited to, adhesives, cleaners, solvents, etc.
- C. Recyclability: The carpet must be 100% recyclable.
- D. Carpet shall inhibit the growth of fungi, gram-positive and gram-negative bacteria, in accordance with AATCC 138 or AATCC 174, parts 2 and 3. (Provide 3000 ppm of zinc OMADINE® bactericide-fungicide.)

#### **1.4 SUBMITTALS**

- A. Section 01330 - Submittal Procedures: Procedures for submittals.
  - 1. Product Data: Data on specified products, describing physical characteristics and method of installation.
  - 2. Shop Drawings: Indicate seaming plan, method of joining seams, and direction of carpet.
  - 3. Samples: Submit two samples 13-1/2 inch x 18 inch in size illustrating color and texture.
  - 4. Submittal exceptions:
    - a. If the Contractor uses the products and installation as specified, then no submittals are required. However, product certification will be required.
    - b. If the Contractor proposes to modify any products or any other specification requirement, then the Contractor shall provide submittals for any alternate products or procedure. Any changes from the specifications shall be indicated. If not indicated, the submittal will be returned.
- B. Section 01780 – Closeout Submittals: Procedures for Closeout Submittals.
  - 1. Include the following certifications:
    - a. Stain proof certificate.
    - b. No zippering certificate.
    - c. Carpet and Rug Institute green label certification.

#### **1.5 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in installing work of this Section with minimum 5 years documented experience.
- B. Regulatory Requirements:
  - 1. NFPA 253 Critical Radiant Flux in Accordance with ASTM E 684: Class 1.
  - 2. NFPA 258 NBS Smoke Chamber: Less than 450 flaming mode.
  - 3. BCA flame spread classification: DOC FF-1(use group R-2 sprinklered).
  - 4. HUD: UM44d Standards.

#### **1.6 ENVIRONMENTAL REQUIREMENTS**

- A. Adhesives: No adhesives to be used.
- B. CRI “green label”.

#### **1.7 DELIVERY, STORAGE AND HANDLING**

- A. Section 01600 - Product Requirements: Transport, handle, store, and protect products.
- B. Deliver carpet in original mill wrappings with register number marked on each bale.
- C. Storage areas shall be secure and dry with temperatures maintained above 65 degrees F at all times.
- D. Remove carpet from its packaging and allow to acclimatize to area of installation 24 hours before application.

## **1.8 PROJECT CONDITIONS OR SITE CONDITIONS**

- A. Environmental Requirements: Do not install carpet unless a constant temperature of at least 65 degrees F. is maintained for 72 hours before, during and 48 hours after application in all areas to receive carpeting.

## **1.9 WARRANTY**

- A. Section 01780 - Closeout Submittals: Procedures for closeout submittals.
- B. Carpet Manufacturer's Warranty:
  - 1. Submit a written Warranty , signed by carpet manufacturer and carpet installer agreeing to repair or replace carpet that does not meet requirements or that fails in materials or workmanship, including, but not limited to, the following:
    - a. Delamination.
    - b. Edge ravel.
    - c. Wear.
    - d. Tuft bind.
  - 2. Warranty Period: 10 years.

## **1.10 MAINTENANCE**

- A. Section 01780 - Closeout Submittals: Procedures for closeout submittals.
- B. Extra Materials: At completion of installation, deliver to Owner.
  - 1. Usable pieces of excess of each color and pattern.
  - 2. Minimum Size: 12 inches x 12 inches.
  - 3. Securely wrapped and legibly labeled with type, color, and location installed.
- C. Maintenance Data: Maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Subject to compliance with Project requirements, manufacturers offering Products which may be incorporated in the Work include the following:
  - 1. Collins & Aikman Floorcoverings, Dalton, GA; (contact David Dembowitz, 800-241-4902 ext 1154)
    - a. Powerbond RS soft-surface floorcovering.
    - b. ER3™, 100% recycled vinyl backing floorcovering / carpet squares. Jhane Barnes Collection.
  - 2. Milliken Carpet, LaGrange, GA; (800) 241-4826, ext. 5108
    - a. Earth Square with PVC Free solid backing.
  - 3. Approved Substitutions: Refer to Section 01600 – Products and Substitutions.

## **2.2 CARPET ACCESSORIES**

- A. Subfloor Filler: Latex underlayment, mixed with undiluted latex liquid furnished by the selected manufacturer. Use one of the following products.
  - 1. Levelayer I, by Dayton Superior Corporation, Miamisburg, OH (800) 745-3700.
  - 2. No. 345, by W.W. Henry Company, Orange, CA (800) 447-0216.
  - 3. Approved Substitutions: Refer to Section 01600 – Products and Substitutions.
- B. Tackless Strip: Carpet gripper, of type recommended by carpet manufacturer to suit application, with attachment devices.
- C. Base Gripper: Tackless strip type with special lipped edge; color to match carpet.
- D. Seam Adhesive: Recommended by manufacturer.
- E. Rubber Transition and termination strips: Equal to Johnsonite Specialty Flooring Accessories, color to be selected by Architect
- F. Adhesives: Materials must comply with the toxicity and emission limits specified in Article 1.3 above and with Section 01350.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Section 01700 - Execution Requirements: Verification of existing conditions before starting work.
- B. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
- C. Report in writing to Architect prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
- D. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the Owner.

### **3.2 PREPARATION**

- A. Prepare substrate for product installation in accordance with manufacturer's published instructions.
- B. Remove subfloor ridges, bumps, and other irregularities. Fill cracks, contraction joints, holes, and depressions with subfloor filler as recommended by manufacturer to achieve smooth, flat hard surface.
- C. Where carpet is installed on existing wood floors, carpet shall be installed directly on existing floors without underlayment.
- D. If carpet is installed on concrete floors, apply subfloor filler and leveler to provide finished concrete surface smooth, with no more than 1/8 inch variation from plane within 10 feet in any direction. Prohibit traffic until subfloor filler is cured.
- E. Remove old adhesive, paint, oils, waxes, sealers and curing compounds not compatible with adhesive to be used. Avoid organic solvents.
- F. Vacuum clean substrate.

### **3.3 INSTALLATION**

#### **A. General Installation:**

1. Install carpet and cushion in accordance with manufacturers instruction and CRI 104.
2. Verify carpet match before cutting to ensure minimal variation between dye lots.
3. Lay out carpet.
  - a. Locate seams in area of least traffic, out of areas of pivoting traffic, and parallel to main traffic.
  - b. Do not locate seams perpendicular through door openings.
  - c. Align run of pile in same direction as anticipated traffic and in same direction on adjacent pieces.
  - d. Locate change of color or pattern between rooms under door centerline.
  - e. Provide monolithic color, pattern, and texture match within any one area.
  - f. Extend carpet under removable flanges and furnishings and into alcoves and closets of each space.
  - g. Provide cut outs where required and bind cut edges where not concealed by protective edge guards or overlapping flanges.
  - h. Install with pattern parallel to walls and borders.
4. Install carpet tight and flat on subfloor, well fastened at edges, with a uniform appearance. Use power stretcher where carpet is greater in length than 20 feet.
5. Install carpet edge guard where edge of carpet is exposed and anchor guards.
6. Install carpet by trimming edges, butting cuts with seaming cement, and taping and/or sewing seams to provide sufficient strength for stretching and continued stresses during life of carpet.
7. Trim edges and butt cuts with seam cement.
8. Carpet shall be installed directly on floor slab or wood floor with reusable hook/loop tape method using 3M TacFast or approved equal. Double sided tape is not acceptable.

#### **B. Installation on Stairs:**

1. Install tackless strips at back of treads, with pins facing riser, and at bottom of riser, with pins facing tread.
2. Install cushion on stair treads and lap over nosing.
3. Install carpet on stairs with the run of the pile in opposite direction of anticipated traffic to avoid peaking of backing at nosings.
4. Stretch carpet over stair treads, full width in one piece as indicated on plans. Fold carpet under 1 1/2 inches (4 cm) on each side.

### **3.4 FIELD QUALITY CONTROL**

- A. Section 01450 - Quality Control: Field inspection.
- B. Inspect carpet and base installation, seaming, pattern, layout, and attachment to substrate.

### **3.5 CLEANING AND PROTECTION**

- A. Comply with CRI 104, Section 15 - Protection of Indoor Installation, and manufacturer's recommended cleaning procedures and as follows.
- B. Section 01700 - Execution Requirements: Cleaning and protection of installed work.

- C. Vacuum carpet using commercial machine with face-beater element. Remove spots, according to manufacturer's recommendations, and replace carpet where spots cannot be removed. Remove any protruding face yarn using sharp scissors. Final cleaning with HEPA vacuum as required by Section 01350.
- D. Remove and recycle excess material as required by the Construction Waste Management Program, Section 01565.

### **3.6 SITE ENVIRONMENTAL PROCEDURES**

- A. Indoor Air Quality:
  - 1. Temporary ventilation: As specified in Section 01150 - Environmental Procedures.
    - a. Ventilate products prior to installation. Remove from packaging and ventilate in a secure, dry, well-ventilated space free from strong contaminant sources and residues. Provide a temperature range of minimum 60 degrees F to maximum 90 degree F continuously for minimum 72 hours. Do not ventilate within limits of Work unless otherwise approved by Owner and Architect.

END OF SECTION